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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,871	05/20/2005	Jari Liimatainen	032221-059	5959
21839	7590	08/14/2009		EXAMINER
BUCHANAN, INGERSOLL & ROONEY PC				ZHU, WEIPING
POST OFFICE BOX 1404			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22313-1404			1793	
				NOTIFICATION DATE
				DELIVERY MODE
				08/14/2009
				ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/531,871	LIIMATAINEN, JARI	
	<b>Examiner</b>	<b>Art Unit</b>	
	WEIPING ZHU	1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 07 May 2009.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-5,8-17,22 and 24-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-5, 8-17, 22 and 24-30 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Status of Claims***

1. Claims 1-5, 8-17, 22 and 24-30 are currently under examination, wherein the claim 1 has been amended in applicant's amendment filed on May 7, 2009. Claim 23 has been cancelled in the same amendment.

### ***Status of Previous Rejections***

2. The previous rejections of claims 1-5, 8-17, 22 and 24-30 under 35 U.S.C. 103(a) as stated in the Office action dated December 11, 2008 are maintained as follows.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-5, 8-17, 22 and 24-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oskarsson et al. (US 4,869,974) in view of Friedman et al. (US 5,445,787) as stated in the Office action dated December 11, 2008.

With respect to the amended feature in the instant claim 1, Oskarsson et al. ('974) discloses that the hotworking comprises hot rolling (col. 4, lines 7-12).

### ***Response to Arguments***

4. The applicant's arguments filed on May 7, 2009 have been fully considered but they are not persuasive.

First, the applicant argues that Friedman et al. ('787) at most discloses that CIP and HIP can both be used prior to extrusion; it does not follow, however, that both can be used prior to hot working of the compact; and CIP cannot be effectively used prior to hotworking by hot rolling, radial forging, or open forging, as recited in the instant claims. In response, the examiner notes that there is no exclusion of the hotworking by extrusion recited in the instant claims; Oskarsson et al. ('974) does disclose that the hotworking comprises hot rolling (col. 4, lines 7-12) as claimed; and the application of MPEP 2144.06 as the ground of the rejection of the claimed feature of the HIP step prior to the hotworking step based on the functional equivalence of CIP and HIP prior to the extrusion as stated in the Office action dated December 11, 2008 is proper and therefore maintained.

Second, the applicant argues that the application of *In re Boesch*, 617, F.2d 272, 205 USPQ 215 (CCPA 1980) as the ground of the rejection of the claimed content of the carbide-forming additives is improper. In response, the examiner notes that Oskarsson et al. ('974) discloses that if e.g. titanium nitride is used as the hard constituent in the hard material, it is possible, by varying particularly the carbon content but also the other alloying elements such as chromium and molybdenum (i.e. carbide-forming additives as claimed) and then adapting the heat treatment to the chosen matrix and to obtain a hard material with the hardness 800-900 or 1200-1300 HV for only one volume content of hard constituents e.g. 50 vol.% (col. 3, lines 8-32), clearly suggesting that the contents of C, Cr and Mo in the powder mixture are result-effective variables, because they would directly affect the hardness of the material. The application of the

case law in the Office action dated December 11, 2008 is proper and therefore maintained.

***Conclusion***

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Weiping Zhu whose telephone number is 571-272-6725. The examiner can normally be reached on 8:30-16:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/  
Supervisory Patent Examiner, Art  
Unit 1793

WZ

6/29/2009